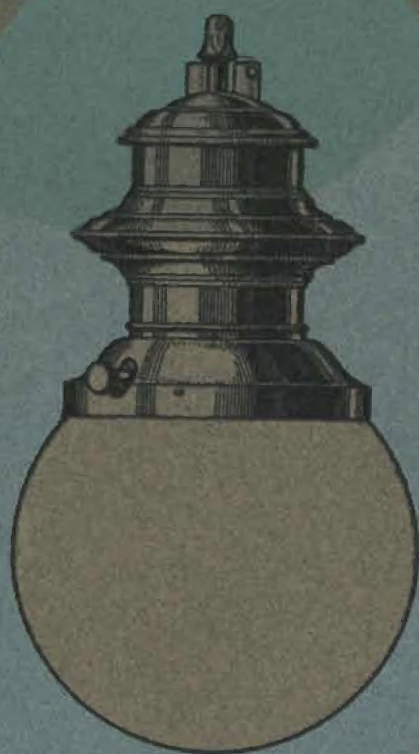
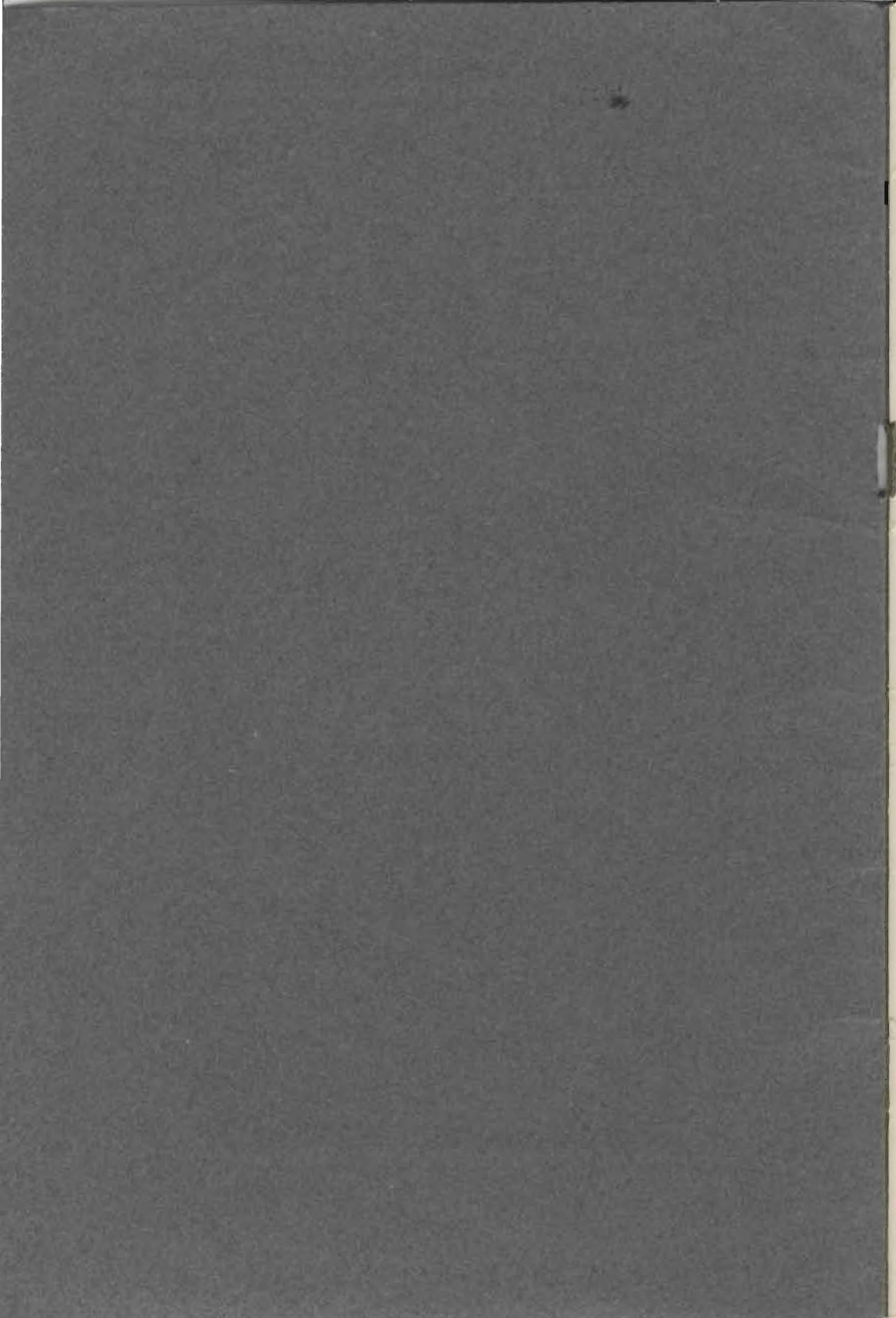


NERNST LAMPS



GENERAL CATALOGUE AND
PRICE LIST N° 5 1907



NERNST LAMPS

GENERAL CATALOG

AND PRICE LIST

No. 5

Central Sta List Price for order	D	Net.
Less than 1000	N	
\$ 1000 - 2500	N & D.	
2500 - 5000	N, D, & D.	
5000 - 10000	N, D, D & D.	
10000 - and over	N, D, D, D & D.	

Disc period = 12 months.

Retail.

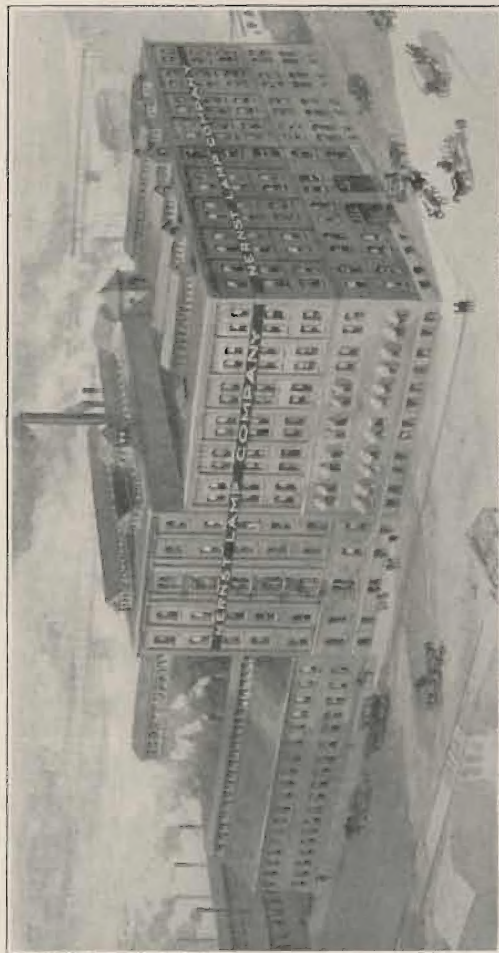
List price.	Disc.
Less than \$200.	Net.
200 - 500	D.
500 - 1000	O.
1000 - 2500	N.

Cash 30 ds. f.o.b. Ham. (no 27. 46)

Canadian Westinghouse Co., Limited

Hamilton, Ontario, Canada

January, 1907



NERNST LAMP WORKS AT PITTSBURG

Introduction



THE fundamental principle of the Nernst lamp, that the metal oxides of certain rare earths will conduct electricity and give off light after being heated, was discovered by Dr. Nernst, the German scientist. The original invention is embodied in the light-giving element or "glower" of the lamp, as it is to-day. This glower, composed of a rare earth mixture, is a small rod or pencil of chalk-like material with a terminal wire at each end.

Since the glower requires heating before it will conduct current and give light, it becomes necessary to employ an electric heater, which is mounted above and close to the glowers inside the globe. The latter is not air-tight, as the Nernst lamp does not require a vacuum.

The upper portion of the lamp contains the "ballast," a small regulating resistance in series with the glower, and an automatic "cut-out," to throw the heater out of service after it has lighted the glower.

Owing to its peculiar composition and the high temperature at which it operates, the glower gives off a brilliant white light, at a very high efficiency, so that the Nernst lamp gives about twice the amount of light for the same amount of current that the ordinary carbon filament lamp does.

The lamp is furnished in five different sizes—one, two, three, four and six-glower. The candle power ratings of the Nernst Lamps compare with other illuminants, as follows:

The one-glower lamp successfully replaces three 16-Candle Power incandescent lamps, or one gas mantle.

The two-glower lamp successfully replaces seven 16-Candle Power incandescent lamps, or $2\frac{1}{2}$ gas mantles.

The three-glower lamp successfully replaces ten 16-Candle Power incandescent lamps, or one 4-Burner Gas Arc.

The four-glower lamp successfully replaces thirteen 16-Candle Power incandescent lamps, or one 6-ampere enclosed A. C. arc lamp.

The six-glower lamp successfully replaces twenty 16-Candle Power incandescent lamps, or one $7\frac{1}{2}$ -ampere A. C., or one 5-ampere D. C. enclosed arc lamp.

During the four years that the Nernst lamp has been on the market, its highly successful and economical operation has not only exceeded the expectations of those engaged in its development, but has won for it a prominent place among modern illuminants. After thorough tests, it has been adopted for lighting many of the finest and largest buildings and stores in the country. It is the only system that is available in units of all sizes, a feature that recommends it for installations that would otherwise require a combination of widely different color values as furnished by the arc and the incandescent.

Its near approach to the color quality of sunlight itself recommends it especially for lighting where color value is of prime importance.

In presenting the 1907 catalog, we call attention to the new lamp bodies and fixtures, more graceful in shape and pleasing in appearance than before offered, to the new canopy housing, the holophane shades and hemispheres, the vertical glower lamp and the new trimming device, which is used in connection with all multiple glower types of lamps.

This device was adopted, as it materially aids the lamp trimmer in his work. It makes it necessary to equip all balls and shades with bands, with the exception of metal shades used in connection with balls on out-door lamps.

Order Guide

Nernst lamps are made for two general voltages, 220 and 110. The 110-volt multiple glower lamps differ from the 220-volt only in the addition of a converter coil (see cuts) which raises the 110-volt circuit received from the line to 220 volts before it reaches the lamp proper, which then operates upon 220 volts the same as if that were the original voltage.

Please note that the converter coil must accompany all multiple glower lamps ordered for 110-volt circuit, or for any combination of lamps not exceeding the rated capacity of the coil.

The six-glower converter coil carries six one-glower lamps, three two-glower, two three-glower, one four-glower and one two-glower, or one six-glower. Likewise, the three-glower converter coil carries three one-glower lamps, one two and one one-glower, or one three-glower.

Lamps of the 220-volt type operate on any even line voltage from 200 to 260, and the single glower 110-volt type on any voltage from 100 to 120. The 110-volt single glower lamp operates directly across the 110-volt potential. As the lamp bodies and the elements in the body are the same for all voltages from 200 to 260 in the one type, and from 100 to 120 in the other, the bodies are only marked with the type voltage and not the actual voltage specified by the customer.

The adjustment for different voltage circuits is all made on the "holder" and only requires the use of different glowers. The holder, therefore, is always marked with the actual circuit voltage specified by the customer.

In ordering, therefore, please give the actual voltage of the circuit, so that holders containing the correct glowers for this voltage may be furnished with the lamps.

In ordering lamps, it is necessary to give the actual average voltage and the maximum and minimum variations from this voltage.

Use the code word or catalog number in ordering lamps and renewal parts. These are given in the following price lists.

The standard lamps herein listed consist of the combinations of bodies and glassware most in demand. "Alabaster" glassware, listed with lamps in this catalog, refers to light bluish glassware. Heater cases, unless otherwise specified, are furnished in the 4-inch size for the two and three glower lamps, and in the 5-inch size for the four and six glower lamps. To order, the single code word opposite the description is sufficient. For example: standard indoor lamp with 8-inch clear ball, code word "Valgroen." Other combinations than those listed are treated as special and three code words must be used in combination, one for the body, one for the holder and the other for the glassware. Example: standard indoor lamp with 8-inch dense opal ball, code words "Bloccavate-Bloccarlo-Vadimony," the first of which pertains to the body, the second to the ball, and the third to the holder, given in the list of bodies, holders and glassware in the latter part of the catalog.

IMPORTANT

SHIPMENTS—Special care is taken in the packing of goods for shipment, and we make no allowance for breakage after delivery in good order to carriers. All claims for breakage must be presented to the transportation companies. Shortage claims will not be entertained unless made within five (5) days after receipt of shipment.

PRICES—Are subject to change without notice.

PRICES—F. O. B. cars, Pittsburg.

TERMS—Net Cash, 30 days from date of Invoice.

INITIAL ORDERS—For less than \$25.00 must be accompanied by cash.

ACCEPTANCE—These goods are supplied by the manufacturer and accepted by the purchaser subject to the conditions of the Patent Right Clause contained in the regular forms of Sales Contracts of the Nernst Lamp Co.

SPECIAL—Prices for inverted type of lamps or other special forms will be quoted upon application.

NOTE—Attention is called to the importance of saving all scrap glowers, heater tubes, non-renewable holders and ballasts, for the return of which a liberal allowance is made. The amount of rebate allowed will be furnished upon request.

Types of Nernst Lamps

For Alternating Current Circuits Only

Type	Volts	Glows	Amperes	Watts
Indoor	220	6	2.4	528
Outdoor	220	6	2.4	528
Indoor	110	6	5.01	556
Outdoor	110	6	5.01	556
Indoor	220	4	1.6	352
Outdoor	220	4	1.6	352
Indoor	110	4	3.37	370
Outdoor	110	4	3.37	370
Indoor	220	3	1.2	264
Outdoor	220	3	1.2	264
Indoor	110	3	2.52	277
Outdoor	110	3	2.52	277
Indoor	220	2	.8	176
Outdoor	220	2	.8	176
Indoor	110	2	1.68	185
Outdoor	110	2	1.68	185
Indoor	220	1	.4	88
Outdoor	220	1	.4	88
Indoor	110	1	.8	88
Outdoor	110	1	.8	88
Indoor	110	1	.4	44
Series (outdoor)	{ 26 23	1	{ 6.6 7.5	115

450 cp.

250 cp.

175 cp.

110 cp.

50 cp.

Six Glower Nernst Lamps, Indoor Type, 220 Volts, 2.4 Amperes



No. 1675

Length, 19½ ins.

Weight, 4½ lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Valbruin	1600	Standard Indoor with 9-inch sand blasted ball.....	\$25.00
Valgroen	1601	Standard Indoor with 8-inch clear ball.....	25.00
Valrod	1602	Standard Indoor with 9-inch alabaster ball.....	25.00
Vamhout	1603	Standard Indoor with opal bell shade and clear heater case.....	25.00
Bettoliere	1655	Standard Indoor with opal dome shade and clear heater case.....	25.00
Vandrage	1604	Standard Indoor with opal bell shade and alabaster heater case..	25.00
Bettonica	1656	Standard Indoor with opal dome shade and alabaster heater case, 25.00	
Vandrint	1605	Standard Indoor with metal dome shade and clear heater case... 26.00	
Vanleen	1606	Standard Indoor with metal dome shade and alabaster heater case, 26.00	
Betulitas	1675	Canopy Indoor with 9-inch sand blasted ball	30.00
Betumble	1677	Canopy Indoor with 8-inch clear ball	30.00
Betumbling	1678	Canopy Indoor with 9-inch alabaster ball	30.00

Note—The above lamps are furnished in the oxidized copper finish. For all other finishes an extra charge of 75 cents list per lamp will be made.

All balls and shades for above lamps are equipped with bands.

Six Glower Nernst Lamps, Indoor Type, 110 Volts, 5.01 Amperes



No. 1625

Length, 24½ ins.

Weight, 16½ lbs.

For Alternating Current Circuits of any Frequency from 50 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i> (See Note Below)
Bettelbube	1625	Standard Indoor with 9-inch sand blasted ball.....	\$25.00
Bettelgeld	1626	Standard Indoor with 8-inch clear ball.....	25.00
Bettelhaft	1627	Standard Indoor with 9-inch alabaster ball.....	25.00
Bettelkram	1629	Standard Indoor with opal bell shade and clear heater case....	25.00
Bettpfanne	1657	Standard Indoor with opal dome shade and clear heater case....	25.00
Bettelmann	1630	Standard Indoor with opal bell shade and alabaster heater case..	25.00
Bettquaste	1658	Standard Indoor with opal dome shade and alabaster heater case,	25.00
Betteludes	1631	Standard Indoor with metal dome shade and clear heater case...	26.00
Bettelrock	1632	Standard Indoor with metal dome shade and alabaster heater case,	26.00

Note—The 110-volt lamps above described are a combination of standard 220-volt lamps with the addition of the converter coil. To ascertain the net price of any of the above 110-volt lamps the sum of \$2.50 *net* per lamp must be added.

See note regarding converter coils on page 30.

The above lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 75 cents list per lamp will be made.

All balls and shades for above lamps are equipped with bands.

Six Glower Nernst Lamps, Outdoor Type, 220 Volts, 2.4 Amperes



No. 1654

Length, 19 ins. Weight, 12½ lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vartuig	1607	Outdoor with 9-inch sand blasted ball	\$26.00
Varwater	1608	Outdoor with 8-inch clear ball	26.00
Vatdoek	1609	Outdoor with 9-inch alabaster ball	26.00
Bettelbrod	1624	Outdoor with metal dome shade and clear heater case	27.00
Bettsack	1659	Outdoor with metal dome shade and alabaster heater case	27.00
Vatwerk	1612	Outdoor with metal cone shade and clear heater case	27.00
Vabulonic	1613	Outdoor with metal cone shade and alabaster heater case	27.00
Bettmaus	1653	Outdoor with metal cone shade and 8-inch clear ball	27.50
Bettoletta	1654	Outdoor with metal cone shade and 9-inch alabaster ball	27.50

The above lamps are furnished in the black Japan finish only.

All balls for above lamps are equipped with bands.

Metal dome shades for above lamps are equipped with bands.

Metal cone shades for above lamps are not equipped with bands.

Six Glower Nemst Lamps, Outdoor Type, 110 Volts, 5.01 Amperes



No. 1641

Length, 26 1/2 ins.

Weight, 26 1/2 lbs.

For Alternating Current Circuits of any Frequency from 50 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i> (See Note Below)
Bettelwort	1641	Outdoor with 9-inch sand blasted ball.	\$26.00
Betterave	1642	Outdoor with 8-inch clear ball.	26.00
Bettermost	1643	Outdoor with 9-inch alabaster ball.	26.00
Bethalter	1647	Outdoor with metal dome shade and clear heater case.	27.00
Bethimmel	1648	Outdoor with metal dome shade and alabaster heater case.	27.00
Bettkissen	1649	Outdoor with metal cone shade and clear heater case.	27.00
Bettleinen	1650	Outdoor with metal cone shade and alabaster heater case.	27.00
Bettler	1651	Outdoor with metal cone shade and 8-inch clear ball.	27.50
Bettmacher	1652	Outdoor with metal cone shade and 9-inch alabaster ball.	27.50

Note—The 110-volt lamps above described are a combination of standard 220-volt lamps with the addition of the converter coil. To obtain the net price of any of the above 110-volt lamps the sum of \$2.50 *net* per lamp must be added.

See note regarding converter coils on page 30.

The above lamps are furnished in the black Japan finish only.

All balls for above lamps are equipped with bands.

Metal dome shades for above lamps are equipped with bands.

Metal cone shades for above lamps are not equipped with bands.

Four Glower Nernst Lamps, Indoor Type, 220 Volts, 1.6 Amperes



No. 1455

Length, 17 ins.

Weight, 2 $\frac{1}{4}$ lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Belliscar	1400	Standard Indoor with 9-inch sand blasted ball.....	\$18.50
Bellisoni	1401	Standard Indoor with 8-inch clear ball.....	18.50
Bellisonos	1402	Standard Indoor with 9-inch alabaster ball.....	18.50
Bellitude	1403	Standard Indoor with opal bell shade and clear heater case....	18.50
Bestopping	1455	Standard Indoor with opal dome shade and clear heater case....	18.50
Bellium	1404	Standard Indoor with opal bell shade and alabaster heater case..	18.50
Bestorm	1456	Standard Indoor with opal dome shade and alabaster heater case,	18.50
Belliveti	1405	Standard Indoor with metal dome shade and clear heater case....	19.50
Bellivetus	1406	Standard Indoor with metal dome shade and alabaster heater case.	19.50
Bestud	1475	Canopy Indoor with 9-inch sand blasted ball.....	23.50
Bestudding	1477	Canopy Indoor with 8-inch clear ball.....	23.50
Bestuermen	1478	Canopy Indoor with 9-inch alabaster ball.....	23.50

Note—The above lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 75 cents list per lamp will be made.
All balls and shades for above lamps are equipped with bands.

Four Glower Nernst Lamps, Indoor Type, 110 Volts, 3.37 Amperes



No. 1425

Length, 24½ ins.

Weight, 16¼ lbs.

For Alternating Current Circuits of any Frequency from 50 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i> (See Note Below)
Bestiaccia	1425	Standard Indoor with 9-inch sand blasted ball	\$18.50
Bestiagem	1426	Standard Indoor with 8-inch clear ball	18.50
Bestiaje	1427	Standard Indoor with 9-inch alabaster ball	18.50
Bestialium	1429	Standard Indoor with opal bell shade and clear heater case	18.50
Bestormed	1457	Standard Indoor with opal dome shade and clear heater case	18.50
Bestialize	1430	Standard Indoor with opal bell shade and alabaster heater case . .	18.50
Bestoven	1458	Standard Indoor with opal dome shade and alabaster heater case, .	18.50
Bestially	1431	Standard Indoor with metal dome shade and clear heater case . . .	19.50
Bestiarian	1432	Standard Indoor with metal dome shade and alabaster heater case, .	19.50

Note—The 110-volt lamps above described are a combination of standard 220-volt lamps with the addition of the converter coil. To ascertain the net price of any of the above 110-volt lamps the sum of \$2.50 *net* per lamp must be added.

See note regarding converter coils on page 30.

The above lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 75 cents list per lamp will be made.

All balls and shades for above lamps are equipped with bands.

Four Glower Nernst Lamps, Outdoor Type, 220 Volts, 1.6 Amperes



No. 1412

Length, 19 ins.

Weight, 12 $\frac{1}{4}$ lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Bellocchio	1407	Outdoor with 9-inch sand blasted ball.....	\$19.50
Belloccia	1408	Outdoor with 8-inch clear ball.....	19.50
Belloce	1409	Outdoor with 9-inch alabaster ball.....	19.50
Bestgarbe	1424	Outdoor with metal dome shade and clear heater case.....	20.50
Bestowal	1459	Outdoor with metal dome shade and alabaster heater case.....	20.50
Bellorita	1412	Outdoor with metal cone shade and clear heater case.....	20.50
Bellosos	1413	Outdoor with metal cone shade and alabaster heater case.....	20.50
Bestoof	1453	Outdoor with metal cone shade and 8-inch clear ball.....	21.00
Bestookte	1454	Outdoor with metal cone shade and 9-inch alabaster ball.....	21.00

The above lamps are furnished in the black Japan finish only.

All balls for above lamps are equipped with bands.

Metal dome shades for above lamps are equipped with bands.

Metal cone shades for above lamps are not equipped with bands.

Four Glower Nernst Lamps, Outdoor Type, 110 Volts, 3.37 Amperes



No. 1443

Length, 26 1/2 ins.

Weight, 26 1/4 lbs.

For Alternating Current Circuits of any Frequency from 50 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i> (See Note Below)
Bestidade	1441	Outdoor with 9-inch sand blasted ball	\$19.50
Bestievole	1442	Outdoor with 8-inch clear ball	19.50
Bestikken	1443	Outdoor with 9-inch alabaster ball	19.50
Bestir	1447	Outdoor with metal dome shade and clear heater case	20.50
Bestirring	1448	Outdoor with metal dome shade and alabaster heater case	20.50
Bestitor	1449	Outdoor with metal cone shade and clear heater case	20.50
Bestitorem	1450	Outdoor with metal cone shade and alabaster heater case	20.50
Bestjes	1451	Outdoor with metal cone shade and 8-inch clear ball	21.00
Bestness	1452	Outdoor with metal cone shade and 9-inch alabaster ball	21.00

Note—The 110-volt lamps above described are a combination of standard 220-volt lamps with the addition of the converter coil. To ascertain the net price of any of the above 110-volt lamps the sum of \$2.50 *net* per lamp must be added.

See note regarding converter coils on page 30.

The above lamps are furnished in the black Japan finish only.

All balls for above lamps are equipped with bands.

Metal dome shades for above lamps are equipped with bands.

Metal cone shades for above lamps are not equipped with bands.

Three Glower Nernst Lamps, Indoor Type, 220 Volts, 1.2 Amperes



No. 1375

Length, 16 ½ ins.

Weight, 3 ½ lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vacabamo	1300	Standard Indoor with 7-inch sand blasted ball.....	\$15.00
Vacabile	1301	Standard Indoor with 6-inch clear ball.....	15.00
Vacamos	1302	Standard Indoor with 7-inch alabaster ball.....	15.00
Vancance	1303	Standard Indoor with opal bell shade and clear heater case.....	15.00
Bespaehen	1355	Standard Indoor with opal dome shade and clear heater case...	15.00
Vacandot	1304	Standard Indoor with opal bell shade and alabaster heater case..	15.00
Bespangle	1356	Standard Indoor with opal dome shade and alabaster heater case,	15.00
Vacantens	1305	Standard Indoor with metal dome shade and clear heater case...	16.00
Vancantive	1306	Standard Indoor with metal dome shade and alabaster heater case,	16.00
Bespoke	1375	Canopy Indoor with 7-inch sand blasted ball.....	18.00
Bespotting	1377	Canopy Indoor with 6-inch clear ball.....	18.00
Bespraakt	1378	Canopy Indoor with 7-inch alabaster ball.....	18.00

Note—The above lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 75 cents list per lamp will be made.
All balls and shades for above lamps are equipped with bands.

Three Glower Nernst Lamps, Indoor Type, 110 Volts, 2.52 Amperes



No. 1325

Length, 21 $\frac{1}{4}$ ins.

Weight 11 lbs.

For Alternating Current Circuits of any Frequency from 50 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i> (See Note Below)
Beslurry	1325	Standard Indoor with 7-inch sand blasted ball.	\$15.00
Besmear	1326	Standard Indoor with 6-inch clear ball.	15.00
Besmearred	1327	Standard Indoor with 7-inch alabaster ball.	15.00
Besmirsch	1329	Standard Indoor with opal bell shade and clear heater case.	15.00
Bespanning	1357	Standard Indoor with opal dome shade and clear heater case.	15.00
Besmirschred	1330	Standard Indoor with opal bell shade and alabaster heater case.	15.00
Besparen	1358	Standard Indoor with opal dome shade and alabaster heater case.	15.00
Besmoking	1331	Standard Indoor with metal dome shade and clear heater case.	16.00
Besmooth	1332	Standard Indoor with metal dome shade and alabaster heater case.	16.00

Note—The 110-volt lamps above described are a combination of standard 220-volt lamps with the addition of the converter coil. To ascertain the net price of any of the above 110-volt lamps the sum of \$2.50 *net* per lamp must be added.

See note regarding converter coils on page 30.

The above lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 75 cents list per lamp will be made.

All balls and shades for above lamps are equipped with bands.

Three Glower Nernst Lamps, Outdoor Type, 220 Volts, 1.2 Amperes



No. 1354

Length, 15 ins.

Weight, 10 lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vacariar	1307	Outdoor with 7-inch sand blasted ball.....	\$16.00
Vacarme	1308	Outdoor with 6-inch clear ball.....	16.00
Vacatest	1309	Outdoor with 7-inch alabaster ball.....	16.00
Beslurried	1324	Outdoor with metal dome shade and clear heater case.....	17.00
Bespat	1359	Outdoor with metal dome shade and alabaster heater case.....	17.00
Vaccada	1312	Outdoor with metal cone shade and clear heater case.....	17.00
Vaccarell	1313	Outdoor with metal cone shade and alabaster heater case.....	17.00
Besouro	1353	Outdoor with metal cone shade and 6-inch clear ball.....	17.50
Bespaarder	1354	Outdoor with metal cone shade and 7-inch alabaster ball.....	17.50

The above lamps are furnished in the black Japan finish only.

All balls for above lamps are equipped with bands.

Metal dome shades for above lamps are equipped with bands.

Metal cone shades for above lamps are not equipped with bands.

Three Glower Nernst Lamps, Outdoor Type, 110 Volts, 2.52 Amperes



No. 1343

Length, 22 ins.

Weight, 19½ lbs.

For Alternating Current Circuits of any Frequency from 50 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i> (See Note Below)
Besocken	1341	Outdoor with 7-inch sand blasted ball.....	\$16.00
Besogne	1342	Outdoor with 6-inch clear ball.....	16.00
Besoigneux	1343	Outdoor with 7-inch alabaster ball.....	16.00
Besolat	1347	Outdoor with metal dome shade and clear heater case.....	17.00
Besoldung	1348	Outdoor with metal dome shade and alabaster heater case.....	17.00
Besonnener	1349	Outdoor with metal cone shade and clear heater case.....	17.00
Besotment	1350	Outdoor with metal cone shade and alabaster heater case.....	17.00
Berottedly	1351	Outdoor with metal cone shade and 6-inch clear ball.....	17.50
Besought	1352	Outdoor with metal cone shade and 7-inch alabaster ball.....	17.50

Note—The 110-volt lamps above described are a combination of standard 220-volt lamps with the addition of the converter coil. To ascertain the net price of any of the above 110-volt lamps the sum of \$2.50 *net* per lamp must be added.

See note regarding converter coils on page 30.

The above lamps are furnished in the black Japan finish only.

All balls for above lamps are equipped with bands.

Metal dome shades for above lamps are equipped with bands.

Metal cone shades for above lamps are not equipped with bands.

Two Glower Nernst Lamps, Indoor Type, 220 Volts, 0.8 Amperes



No. 1203

Length, $14\frac{1}{4}$ ins.

Weight, $1\frac{1}{4}$ lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vaccary	1200	Standard Indoor with 7-inch sand blasted ball.....	\$10.00
Vachellie	1201	Standard Indoor with 6-inch clear ball.....	10.00
Vachery	1202	Standard Indoor with 7-inch alabaster ball.....	10.00
Vachettes	1203	Standard Indoor with opal bell shade and clear heater case....	10.00
Beschuiteje	1255	Standard Indoor with opal dome shade and clear heater case....	10.00
Vacuetto	1204	Standard Indoor with opal bell shade and alabaster heater case..	10.00
Beschutssel	1256	Standard Indoor with opal dome shade and alabaster heater case,	10.00
Vacuidade	1205	Standard Indoor with metal dome shade and clear heater case....	11.00
Vacuist	1206	Standard Indoor with metal dome shade and alabaster heater case,	11.00
Besenheide	1275	Canopy Indoor with 7-inch sand blasted ball.....	13.00
Besenmann	1277	Canopy Indoor with 6-inch clear ball.....	13.00
Besenruthie	1278	Canopy Indoor with 7-inch alabaster ball.....	13.00

Note—The above lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 75 cents list per lamp will be made.
All balls and shades for above lamps are equipped with bands.

Two Glower Nernst Lamps, Indoor Type, 110 Volts, 1.68 Amperes



No. 1225

Length, 21 $\frac{1}{4}$ ins.

Weight, 10 $\frac{3}{4}$ lbs.

For Alternating Current Circuits of any Frequency from 50 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i> (See Note Below)
Besachteg	1225	Standard Indoor with 7-inch sand blasted ball	\$10.00
Besador	1226	Standard Indoor with 6-inch clear ball	10.00
Besadores	1227	Standard Indoor with 7-inch alabaster ball	10.00
Besahnmars	1229	Standard Indoor with opal bell shade and clear heater case	10.00
Beschutten	1257	Standard Indoor with opal dome shade and clear heater case	10.00
Besahnmast	1230	Standard Indoor with opal bell shade and alabaster heater case . .	10.00
Bescorn	1258	Standard Indoor with opal dome shade and alabaster heater case .	10.00
Besaigue	1231	Standard Indoor with metal dome shade and clear heater case . . .	11.00
Besaint	1232	Standard Indoor with metal dome shade and alabaster heater case .	11.00

Note—The 110-volt lamps above described are a combination of standard 220-volt lamps with the addition of the converter coil. To ascertain the net price of any of the above 110-volt lamps the sum of \$2.50 *net* per lamp must be added.

See note regarding converter coils on page 30.

The above lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 75 cents list per lamp will be made.

All balls and shades for above lamps are equipped with bands.

Two Glower Nernst Lamps, Outdoor Type, 220 Volts, 0.8 Amperes



No. 1224

Length, 15 ins.

Weight, 9¼ lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vacunaban	1207	Outdoor with 7-inch sand blasted ball.....	\$11.00
Vacunadas	1208	Outdoor with 6-inch clear ball.....	11.00
Vacunador	1209	Outdoor with 7-inch alabaster ball.....	11.00
Berzovia	1224	Outdoor with metal dome shade and clear heater case.....	12.00
Bescorned	1259	Outdoor with metal dome shade and alabaster heater case.....	12.00
Vucunation	1212	Outdoor with metal cone shade and clear heater case.....	12.00
Vacuo	1213	Outdoor with metal cone shade and alabaster heater case.....	12.00
Beschourode	1253	Outdoor with metal cone shade and 6-inch clear ball.....	12.50
Beschuetzt	1254	Outdoor with metal cone shade and 7-inch alabaster ball.....	12.50

The above lamps are furnished in the black Japan finish only.

All balls for above lamps are equipped with bands.

Metal dome shades for above lamps are equipped with bands.

Metal cone shades for above lamps are not equipped with bands.

Two Glowor Nernst Lamps, Outdoor Type, 110 Volts, 1.68 Amperes



No. 1243

Length, 22 ins.

Weight, 19¼ lbs.

For Alternating Current Circuits of any Frequency from 50 to 133 Cycles.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i> (See Note Below)
Beschaamde	1241	Outdoor with 7-inch sand blasted ball.....	\$11.00
Beschaming	1242	Outdoor with 6-inch clear ball.....	11.00
Beschau	1243	Outdoor with 7-inch alabaster ball.....	11.00
Beschikte	1247	Outdoor with metal dome shade and clear heater case.....	12.00
Beschimpft	1248	Outdoor with metal dome shade and alabaster heater case.....	12.00
Beschirmen	1249	Outdoor with metal cone shade and clear heater case.....	12.00
Beschonk	1250	Outdoor with metal cone shade and alabaster heater case.....	12.00
Beschoren	1251	Outdoor with metal cone shade and 6-inch clear ball.....	12.50
Beschot	1252	Outdoor with metal cone shade and 7-inch alabaster ball.....	12.50

Note—The 110-volt lamps above described are a combination of standard 220-volt lamps with the addition of the converter coil. To ascertain the net price of any of the above 110-volt lamps the sum of \$2.50 *net* per lamp must be added.

See note regarding converter coils on page 30.

The above lamps are furnished in the black Japan finish only.

All balls for above lamps are equipped with bands.

Metal dome shades for above lamps are equipped with bands.

Metal cone shades for above lamps are not equipped with bands.

One Glower Nernst Lamps, Indoor and Outdoor Types, 220 Volts,
0.4 Amperes



No. 1100

Length, 9½ ins. Weight, 6 oz.



No. 1106

Length, 10 ins. Weight, 3¼ lbs.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

WITH HORIZONTAL GLOWER

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vacuous	1100	Indoor with 5-inch sand blasted ball.....	\$6.00
Vacuums	1101	Indoor with 4-inch clear ball.....	6.00
Vadaveto	1102	Indoor with 5-inch alabaster ball.....	6.00
Vadeaba	1104	Outdoor with 4-inch clear ball.....	8.00
Vadeables	1105	Outdoor with 5-inch alabaster ball.....	8.00
Bergzug	1106	Outdoor with 4-inch clear ball and metal cone shade.....	9.00

WITH VERTICAL GLOWER

Viable	1150	Indoor with 5-inch sand blasted ball.....	\$4.25
Viaduct	1151	Indoor with 4-inch clear ball.....	4.25
Viatric	1152	Indoor with 5-inch alabaster ball.....	4.25
Vigacant	1160	Outdoor with 4-inch clear ball.....	6.25
Viganade	1161	Outdoor with 5-inch alabaster ball.....	6.25
Berrebbe	1162	Outdoor with 4-inch clear ball and metal cone shade.....	7.25

Note—The indoor lamps are furnished in the oxidized copper finish.
For all other finishes an extra charge of 50 cents list per lamp will be made.
The outdoor lamps are furnished in black Japan finish only.
Balls for above lamps are equipped with bands.
Glass shades for above indoor lamps are equipped with bands.
Metal shades for above outdoor lamps are not equipped with bands.

One Glower Nernst Lamps, Indoor and Outdoor Types, 110 Volts,
0.8 Amperes



No. 1110

Length, $7\frac{1}{4}$ ins.

Weight, 8 oz.



No. 1113

Length, $7\frac{1}{4}$ ins.

Weight, 8 oz.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles.

WITH HORIZONTAL GLOWER

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vadeavel	1110	Indoor with 5-inch sand blasted ball.....	\$6.00
Vademanto	1111	Indoor with 4-inch clear ball	6.00
Vademecum	1112	Indoor with 5-inch alabaster ball	6.00
Berlingare	1122	Indoor with 5-inch dense opal ball.....	6.00
Vademhout	1113	Outdoor with 5-inch sand blasted ball.....	6.00
Vadecoso	1114	Outdoor with 4-inch clear ball.....	6.00
Vaderaard	1115	Outdoor with 5-inch alabaster ball.....	6.00

Note—The indoor lamps are furnished in the oxidized copper and the outdoor lamps in the black Japan finish.

For all other finishes an extra charge of 50 cents list per lamp will be made.

Balls for above lamps are without bands.

To use shades with above lamps requires use of shade holder—Cat. No. 3593.

✓ 44 Watt Nernst Lamps, Indoor Type, 110 Volts, 0.4 Amperes



No. 1025

Length, 6½ ins.

Weight, 8 oz.

For Alternating Current Circuits of any Frequency from 25 to 133 Cycles. **NET**

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vergatino	1025	Lamp with 3-inch sand blasted ball.....	\$3.00
Vergasta	1026	Lamp with 3-inch clear ball.....	3.00
Verge	1027	Lamp with 3-inch dense opal ball.....	3.00
Vergebung	1029	Lamp with 3-inch alabaster ball.....	3.00

Note—These lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 50 cents list per lamp will be made.

Balls for above lamps are without bands.

Nernst Series System



Lamp Trimmer.

Length, 10 ins.

Weight, $4\frac{3}{4}$ lbs.



For Standard 6.6 or 7.5 Ampere Constant Current A. C. Circuits, of 60 Cycles Frequency.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Berlique	1125	One complete unit, including auxiliary transformer, goose-neck bracket and Nernst 1-glow lamp with clear ball and metal shade, for $7\frac{1}{2}$ ampere circuits	\$20.00
Bermeje	1126	One complete unit as above, for 6.6 ampere circuits	20.00
Bermejeear	1127	Goose-neck only for above	2.50
Bermejeo	1128	Lamp body trim	2.65

The above lamps are furnished in the black Japan finish.

Lamp Trimmers

Bermejona	1129	Lamp Trimmer, as illustrated above, price first three feet	\$5.00
		Each additional foot . . . . .	.50

For eight feet and above the trimming device will telescope.

Special Lamps with Holophane Hemispheres



No. 1676

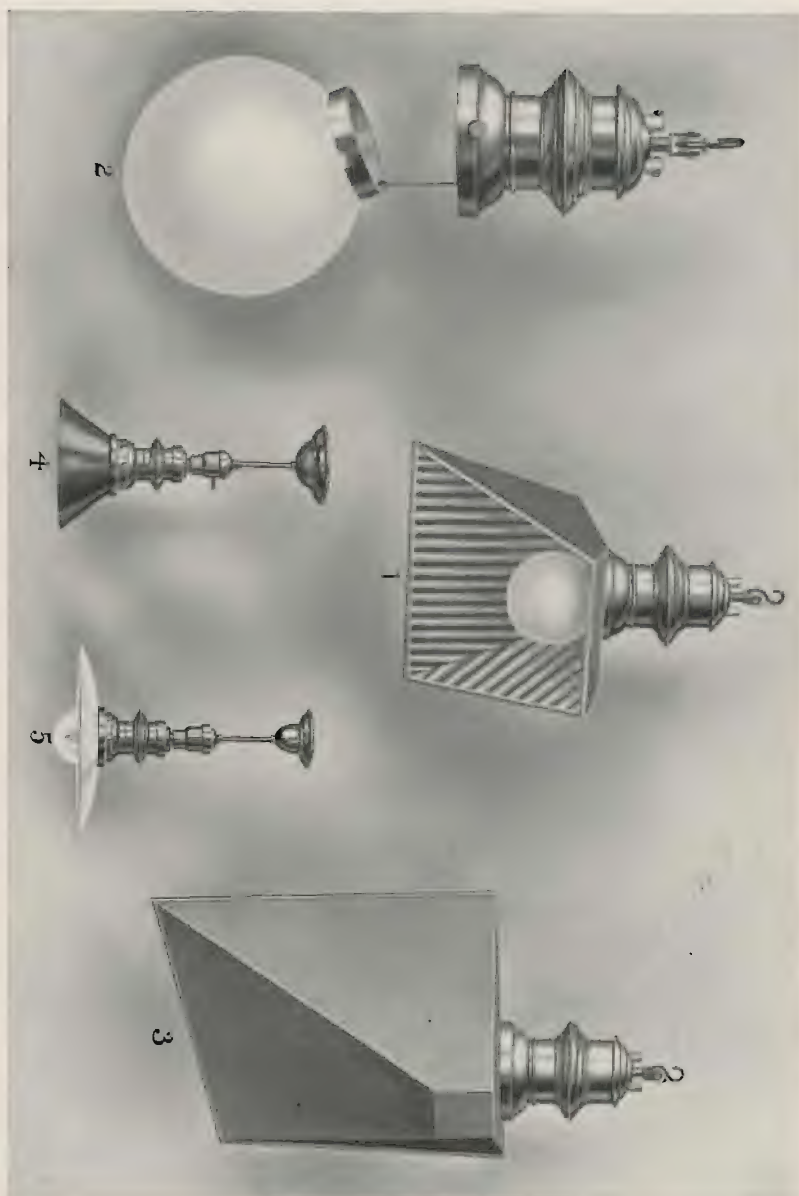
Length, 16 ins.

Weight, 8 $\frac{1}{4}$ lbs.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Bhishma	1676	6-glower indoor lamp with 12-inch holophane hemisphere	\$30.00
Bharati	1476	4-glower indoor lamp with 12-inch holophane hemisphere	25.00
Bhanou	1376	3-glower indoor lamp with 9-inch holophane hemisphere	17.50
Bhang	1276	2-glower indoor lamp with 9-inch holophane hemisphere	13.00

Note—These lamps are furnished in the oxidized copper finish.

For all other finishes an extra charge of 75 cents list per lamp will be made.



1—Window Reflector. 2—Standard Lamp Showing New Trimming Device. 3—Art Gallery Reflector.
4—Single Clover Cone Shade with Band. 5—Single Clover Lamp with Holophane Diffusing Shade.



Nernst Lamp Fixtures

Fixtures and Lamp Bodies

Fixtures

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Biodotus	2700	Canopy pendant for 1-glower lamp	\$0.85
Biodynamic	2701	Canopy pipe pendant for 1-glower lamp, brass pipe, 1 ft. in length, 1.00 Extra charge each additional foot . . . . .	.20
Biogenesis	2702	Canopy pendant for 1-glower lamp, enclosed-socket type	1.40
Biogenetic	2703	Canopy pendant for multiple-glower lamp, with husk	1.50
Biogeny	2704	Canopy pendant for multiple-glower lamp, without husk	1.00
Biognose	2705	Canopy pipe pendants for multiple-glower lamps, 1 foot pipe Extra charge each additional foot	2.00 .30
Biografia	2706	Chain pendants for multiple-glower lamps, 1 foot chain Extra charge each additional foot	2.75 .85
Biografo	2708	Wall bracket	1.50
Biotomic	2752	Canopy housing for 6 and 4-glower lamp	6.00
Biovule	2753	Canopy housing for 3 and 2-glower lamp	4.00
Bioxalate	2754	Ornamental bracket	8.00
Bioxalos	2755	Ornamental fixture for 2 and 3-glower lamp	45.00
Bipaleole	2756	Ornamental fixture for 4 and 6-glower lamp	45.00

The above fixtures, 2700 to 2708, inclusive, are wired and fitted with crow-foot support; when furnished with insulating joint an extra charge of 30 cents list will be made. These fixtures are furnished in the oxidized copper finish. For other finishes add as follows: 50 cents each list for fixtures 2700, 2702 and 2704; 75 cents each list for fixtures 2701, 2703, 2705 2706, 2708, 2752, 2753 and 2754; \$1.50 each list for 2755 and 2756.

Nernst Lamp Bodies

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Bloccavate	3646	Indoor 6-glower amp body	\$18.30
Blocchero	3647	Outdoor 6-glower lamp body	19.30
Blocchiamo	3648	Indoor 4-glower lamp body	14.30
Blockading	3649	Outdoor 4-glower lamp body	15.30
Blockbaum	3650	Indoor 3-glower lamp body	11.40
Blockbild	3651	Outdoor 3-glower lamp body	12.40
Blockest	3652	Indoor 2-glower lamp body	6.65
Blockform	3653	Outdoor 2-glower lamp body	7.65
Blockhaken	3654	Indoor 220-volt, 88-watt lamp body	3.15
Blockhaus	3655	Outdoor 220-volt, 88-watt lamp body	5.10
Blondheid	3679	Indoor 110-volt, 88-watt lamp body	3.15
Blondjes	3680	Outdoor 110-volt, 88-watt lamp body	3.15
Vergeteado	1801	Indoor 110-volt, 44-watt lamp body	2.45

Lamp Bodies and Converter Coils

Nernst Lamp Bodies (continued)

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Bevolken	1809	Indoor 2-glower lamp body with holder for hemisphere.....	8.65
Bevor	1813	Indoor 3-glower lamp body with holder for hemisphere.....	13.40
Bevracht	1815	Indoor 4-glower lamp body with holder for hemisphere.....	17.30
Bevulde	1819	Indoor 6-glower lamp body with holder for hemisphere.....	21.30
Blockhead	3656	Indoor 2-glower lamp body with canopy housing.....	9.65
Blockholz	3657	Indoor 3-glower lamp body with canopy housing.....	14.40
Blockishly	3658	Indoor 4-glower lamp body with canopy housing.....	19.30
Blocklike	3659	Indoor 6-glower lamp body with canopy housing.....	23.30

Converter Coils



For use in connection with standard 220-volt lamps when operated on 110-volt circuits.

These coils are designed with ratio of two to one.

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>Net Price</i>
Blinding	3600	6-glower converter coil complete in case, oxidized copper finish...\$2.50	
Blandirano	3300	3-glower converter coil complete in case, oxidized copper finish... 2.50	

Note—A six-glower converter coil may be used to operate 1 six-glower lamp; 6 one-glower lamps; 3 two-glower lamps; 2 three-glower lamps, or a combination having a total of from four to six glowers, likewise a three-glower converter coil may be used to operate any combination having a total of three glowers.

For all other finishes an extra charge of 75 cents per coil will be made.

Nernst Lamp Holders



Holders

RENEWABLE—Complete with Glowern

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vaderscha	500	For 1-glower, 110-volt lamp.....	\$2.50
Vadiament	501	For 1-glower, 220-volt lamp, with prongs.....	2.50
Bevemmo	1774	For 1-glower, 220-volt lamp, without prongs.....	2.50
Vadianos	502	For 2-glower lamp.....	2.75
Vadimonis	503	For 3-glower lamp.....	3.00
Beveiligde	1772	For 4-glower lamp.....	3.50
Vadimony	506	For 6-glower lamp.....	6.00

RENEWABLE—Complete without Glowern

Verdwaald	523	For 1-glower, 110-volt lamp.....	\$2.25
Verfaarde	524	For 1-glower, 220-volt lamp, with prongs.....	2.25
Bevendolo	1775	For 1-glower, 220-volt lamp, without prongs.....	2.25
Verfaerben	525	For 2-glower lamp.....	2.25
Verfalltag	526	For 3-glower lamp.....	2.25
Bevelende	1773	For 4-glower lamp.....	2.50
Verfassung	527	For 6-glower lamp.....	4.50

NON-RENEWABLE—Complete with Glowern

Vergeltbar	1451	For 44-watt, 110-volt lamp.....	50.75
Vergimp	1460	For series lamp.....	.60
Vicarial	1461	For 88-watt lamp, vertical glower.....	.75

A rebate is given for the return of burned-out non-renewable holders.

In ordering give actual voltage of circuit

Glowers, Etc.

Glowers

For Lamps or Holders of the "Renewable" Type. For Alternating Current Circuits only.

In ordering glowers, always give actual voltage of circuit and catalog number or code word.

For example:

If glowers are wanted for a six-glower lamp, to be operated on a 216-volt circuit, order as follows:

Express (or mail) 100 glowers, catalog No. 2600, for 216-volt circuit.

Glowers for circuits of any even voltage from 200 to 260, or any voltage from 100 to 120 may be ordered.

Code word	Catalog No.	Amps.	Description	List Price Each
Verdunsten	2600	.4	For 6-glower lamp	\$0.25
Biglume	2400	.4	For 4-glower lamp	.25
Verdvar	2300	.4	For 3-glower lamp	.25
Verdurous	2200	.4	For 2-glower lamp	.25
Verdusco	2100	.4	For 88-watt, 220-volt lamp	.25
Verduscos	2110	.8	For 88-watt, 110-volt	.35

Heater Tubes

Code word	Catalog No.	Description	List Price Each
Vaderfe	320	For all lamps whose voltage is from 200 to 210 volts	\$0.75
Vadergek	322	For all lamps whose voltage is from 210 to 246 volts	.75
Bejadende	323	For all lamps whose voltage is from 246 to 260 volts	.75
Vaderhuis	326	For all 1-glower lamps whose voltage is 100 to 120 volts	.75

Ballasts

Code word	Catalog No.	Description	List Price Each
Vaderkus	312	For 88-watt, 110-volt lamp	\$0.50
Vaderlief	313	For 88-watt, 220-volt lamp	.50
Vaders	315	For 2, 3, 4 and 6-glower lamps	.50
Vergency	1701	For 44-watt lamp	.50

Heater Porcelains

Code word	Catalog No.	Description	List Price Each
Verfaalt	453	For 6-glower lamp	\$0.25
Bevedering	1771	For 4-glower lamp	.25
Verfbord	452	For 3-glower and 1-glower, 220-volt lamps	.25
Verfmolen	706	For 2-glower lamp	.25
Verfdistel	714	For 1-glower, 110-volt lamp	.25
Benaccia	715	One-piece holder porcelain for 1-glower lamp, without prongs	.25

Note - Attention is called to the importance of saving all scrap glowers, non-renewable holders, heater tubes and ballasts, for the return of which a liberal allowance is made. The amount of rebate will be furnished upon request.

Glowers, Heater Tubes and Ballasts are all put up in standard packages of 10 each.

Glassware

Glassware

The terms Light Alabaster (Bluish), Light Alabaster (White), and Dense Opal, are used to express density rather than color. These three types represent the standard colored glassware adopted by the Company. The Light Alabaster Bluish is the most popular type for the illumination of interiors used for commercial purposes and by its use good diffusion with minimum absorption is obtained. The Light Alabaster White is popular for the illumination of such interiors as restaurants, waiting rooms, etc., and its use tends to soften the light, with good diffusion and with slightly increased absorption over the Light Alabaster Bluish. The Dense Opal glassware is used particularly with the smaller units and where the lamps are used for reading lights, as in club rooms, etc. The diffusion is excellent but with maximum absorption.

Accordingly the Light Alabaster Bluish represents our standard colored glassware of least density, the Light Alabaster White our standard of medium density, and the Dense Opal our standard of greatest density.

Without Bands

Light Alabaster Ball (Bluish)

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Blickgold	3579	9-inch ball for 4 and 6-glower lamp	\$.80
Blickorn	3571	8-inch ball for 4 and 6-glower lamp . . . . .	.70
Blicklos	3580	7-inch ball for 2 and 3-glower lamp . . . . .	.65
Bliemulde	3512	6-inch ball for 2 and 3-glower lamp . . . . .	.60
Blindmaus	3603	5-inch ball for 1-glower lamp . . . . .	.40
Blienage	3513	4-inch ball for 1-glower lamp . . . . .	.35
Blienetz	3514	3-inch ball for 44-watt lamp . . . . .	.20

Dense Opal Ball

Bleiweiss	3530	8-inch ball for 4 and 6-glower lamp . . . . .	.70
Bleiwurt	3531	6-inch ball for 2 and 3-glower lamp . . . . .	.60
Bleizucken	3532	4-inch ball for 1-glower lamp . . . . .	.35
Vengerius	2050	3-inch ball for 44-watt lamp . . . . .	.20

Clear Ball

Vadrouill	289	8-inch ball for 4 and 6-glower lamp	\$.70
Vadsig	306	6-inch ball for 2 and 3-glower lamp . . . . .	.60
Vadsighed	295	4-inch ball for 1-glower lamp . . . . .	.35
Vergers	2025	3-inch ball for 44-watt lamp . . . . .	.20

Sand Blasted Ball

Blissful	3614	9-inch ball for 4 and 6-glower lamp . . . . .	.80
Vadipedes	288	8-inch ball for 4 and 6-glower lamp . . . . .	.70
Blissfully	3615	7-inch ball for 2 and 3-glower lamp . . . . .	.65
Vadomar	291	6-inch ball for 2 and 3-glower lamp . . . . .	.60
Blissless	3616	5-inch ball for 1-glower lamp . . . . .	.40
Vadosas	293	4-inch ball for 1-glower lamp . . . . .	.35
Vengame	2000	3-inch ball for 44-watt lamp . . . . .	.20

Light Alabaster Ball (White)

Bliksem	3583	9-inch ball for 4 and 6-glower lamp . . . . .	.80
Blieschrot	3521	8-inch ball for 4 and 6-glower lamp . . . . .	.70
Bliksemen	3584	7-inch ball for 2 and 3-glower lamp . . . . .	.65
Blieschuss	3522	6-inch ball for 2 and 3-glower lamp . . . . .	.60
Blindkohl	3602	5-inch ball for 1-glower lamp . . . . .	.40
Bliesinter	3523	4-inch ball for 1-glower lamp . . . . .	.35
Bliespat	3524	3-inch ball for 44-watt lamp . . . . .	.20

Glassware

With Bands

Clear Ball

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Blitzen	3627	8-inch ball for 4 and 6-glower lamp	\$0.80
Blondjes	3680	6-inch ball for 2 and 3-glower lamp	.70
Vicarship	4598	4-inch ball for 1 glower lamp	.45

Sand Blasted Ball

Blitzender	3628	9-inch ball for 4 and 6-glower lamp	.90
Blitzgelb	3629	8-inch ball for 4 and 6-glower lamp	.80
Blitzjunge	3630	7-inch ball for 2 and 3-glower lamp	.75
Blitzkopf	3631	6-inch ball for 2 and 3-glower lamp	.70
Blitzkraft	3632	5-inch ball for 1-glower lamp	.50
Vicenary	4634	4-inch ball for 1-glower lamp	.45

Light Alabaster Ball (White)

Blitzlicht	3633	9-inch ball for 4 and 6-glower lamp	.90
Blitzschau	3634	8-inch ball for 4 and 6-glower lamp	.80
Blitztoll	3635	7-inch ball for 2 and 3-glower lamp	.75
Blitzweib	3636	6-inch ball for 2 and 3-glower lamp	.70
Vicugna	4632	5-inch ball for 1-glower lamp	.50
Vicount	4636	4-inch ball for 1-glower lamp	.45

Light Alabaster Ball (Bluish)

Blitzwort	3637	9-inch ball for 4 and 6-glower lamp	.90
Blocaglux	3638	8-inch ball for 4 and 6-glower lamp	.80
Bloccammo	3639	7-inch ball for 2 and 3-glower lamp	.75
Blondkopf	3681	6-inch ball for 2 and 3-glower lamp	.70
Viddecit	4633	5-inch ball for 1-glower lamp	.50
Victorian	4637	4-inch ball for 1-glower lamp	.45

Dense Opal Ball

Bloccarlo	3640	8-inch ball for 4 and 6-glower lamp	.80
Bloccarono	3641	6-inch ball for 2 and 3-glower lamp	.70
Bloccassi	3642	4-inch ball for 1-glower lamp	.45

Heater Cases (no bands used)

Bloccata	3643	5-inch clear heater case	\$0.40
Vagahan	430	4-inch clear heater case	.30
Bloccatura	3644	5-inch alabaster heater case (white)	.40
Valfrous	431	4-inch alabaster heater case (white)	.30
Bletonists	3571	5-inch alabaster heater case (bluish)	.40
Bloccavamo	3645	4-inch alabaster heater case (bluish)	.30
Blessieren	3566	4-inch dense opal heater case	.30

Glassware

Shades Without Bands for Use in Combination with Heater Case

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Vagabundo	299	14-inch opal bell shade	\$0.50 .65
Vagado	373	12-inch opal bell shade .....	.40 .50
Blikwert	3588	14-inch opal dome shade .....	.40 .60
Blindaal	3589	12-inch opal dome shade .....	.50 .80

Shades With Bands for Use in Combination with Heater Case

Blisters	3617	14-inch opal bell shade .....	.60 .75
Blitanthe	3618	12-inch opal bell shade .....	.50 .60
Blithetul	3619	14-inch opal dome shade .....	.50 .70
Blithely	3620	12-inch opal dome shade .....	.40 .60
Blitheness	3621	16-inch metal cone shade	1.50
Blithesome	3622	14-inch metal cone shade	1.25
Blitorum	3623	14-inch metal dome shade	1.50
Blitzange	3624	12-inch metal dome shade	1.25

Shades Without Bands for Use in Combination with Balls for Outdoor Lamps only

Blitzblau	3625	16-inch cone shade for 4 and 6-glower lamp	1.50
Blitzbube	3626	14-inch cone shade for 2 and 3-glower lamp	1.25
Blinddar	3597	12-inch flat metal shade for multiple and series 1-glower lamp	1.00

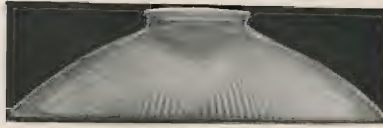
Special Shades Without Bands

Blindaba	3590	12-inch opal cone shade (green outside) for 1-glower lamp	\$1.00
Blindabais	3591	12-inch metal cone shade for 1-glower lamp	1.25
Blindaje	3592	12-inch flat opal shade for 1-glower lamp .....	.50
Blindaria	3593	Spun brass shade holder with socket for above three items .....	.75
Blindarla	3594	Show window reflector for 1-glower lamp	1.50
Blindasse	3595	Show window reflector for 2 and 3-glower lamp	2.00
Blindava	3596	Art gallery reflector for 2 and 3-glower lamp	2.75

Special Shades With Bands

Blinkard	3607	12-inch opal cone shade (green outside) for 1-glower lamp	1.10
Blinked	3608	12-inch flat opal shade for 1-glower lamp .....	.60
Blinzhaut	3611	Show window reflector with bayonet catches for 1-glower lamp ..	1.50
Blinzler	3612	Show window reflector with bayonet catches for 2 and 3-glower lamp	2.00
Blinzlich	3613	Art gallery reflector with bayonet catches for 2 and 3-glower lamp,	2.75

Holophane Glassware



3673



3674



3675

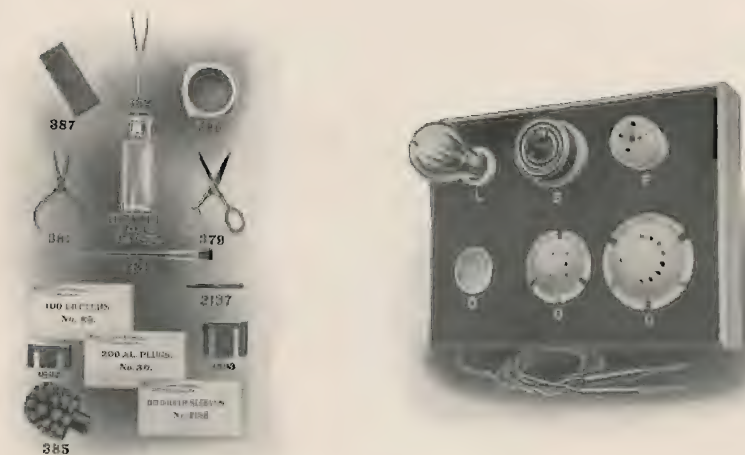
Without Bands

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Blokklood	3670	8-inch holophane globe	\$2.50
Blokknaad	3671	6-inch holophane globe	1.25
Blokkrad	3672	4-inch holophane globe .....	.50
Blindslide	3605	9-inch holophane hemisphere	1.75
Blindslang	3606	12-inch holophane hemisphere	4.00
Blokschaaf	3673	Holophane reflector for 2 and 3-glower lamps	1.50
Blokkspin	3674	Holophane reflector for 2 and 3-glower lamps	1.50
Blokktin	3675	Holophane reflector for 2 and 3-glower lamps	1.50
Blokkzilver	3676	Holophane reflector for 4 and 6-glower lamps	2.00
Blond	3677	Holophane reflector for 4 and 6-glower lamps	2.00
Blondas	3678	Holophane reflector for 4 and 6-glower lamps	2.00

With Bands

<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Blinkworn	3609	11-inch concentrating holophane reflector with band for single-glower vertical lamp	\$1.60
Blinky	3610	12-inch distributing holophane reflector with band for single-glower vertical lamp	1.60
Blocksberg	3661	Holophane reflector for 2 and 3-glower lamps	1.60
Blockschuh	3662	Holophane reflector for 2 and 3-glower lamps	1.60
Blockstein	3663	Holophane reflector for 2 and 3-glower lamps	1.60
Blockthor	3664	Holophane reflector for 4 and 6-glower lamps	2.10
Blockwagen	3665	Holophane reflector for 4 and 6-glower lamps	2.10
Blockwall	3666	Holophane reflector for 4 and 6-glower lamps	2.10
Blokkatrol	3667	8-inch holophane globe for 4 and 6-glower lamps	2.60
Blokkenet	3668	6-inch holophane globe for 2 and 3-glower lamps	1.35
Blokkland	3669	4-inch holophane globe for 1-glower lamp .....	.60

Attendant's Kit and Testing Board



<i>Code word</i>	<i>Catalog No.</i>	<i>Description</i>	<i>List Price</i>
Verglauwen	710	Testing Board and Attendant's Kit.....	\$13.80
Verfluss	709	Testing Board	8.30
Verfliegen	724	Attendant's Kit.....	5.50

The Attendant's Kit comprises the following articles:

<i>Code word</i>	<i>Cat. No.</i>	<i>No. in Kit</i>	<i>Description</i>	<i>List Price</i>
Vaginatür	379	1	Scissors	\$0.35
Vaginelle	381	1	Long-nosed Pliers .....	.50
Vaginicol	382	1	Tweezers .....	.35
Bewrayeth	383	1	Screw Driver .....	.35
Vaginopor	384	1	½-inch Paste Brush .....	.15
Vagipedes	385	1	Cleaning Brush	1.00
Vagipenne	386	1	Mixing Dish .....	.35
Vagissant	387	1	Dark Glass Screen .....	.10
Vagonetax	85	100	Cotter Pins .....	.20
Vagous	30	200	Aluminum Plugs .....	.50
Verflossen	667	1	Package of Heater Porcelain Paste.....	.35
Bewrays	1891	50	Fusible Heater Plugs.....	.50
Bewreck	1892	1	Glower Mounting Gauge (1, 2 and 3-glower lamps) ..	.15
Bewrecked	1893	1	Glower Mounting Gauge (4, and 6-glower lamps) ..	.15
Bewrecking	1894	50	Silver Sleeves .....	.50

Telegraph Code

CABOOLEAT	—Please change order to read
CABOOSE	—Too late to make alteration now
CABORGUE	—Cancel order unless shipped by
CABOSSER	—Cannot cancel; sorry; too late
CABOZ	—Will confirm order by mail
CABRAIT	—Can probably deliver by
CABREADAS	—When will you deliver
CABREADO	—Will make delivery by
CABREMOS	—What is your best delivery of
CABREROUT	—Express at once
CACAPAR	—Will express at once
CACAPIN	—Express to-day sure
CACARANADO	—Forward sure by this night's mail
CACAREABA	—Your letter arrived too late
CACAREADOR	—By registered mail
CADAVERIN	—Expect to mail you
CADAVEROUS	—Reply immediately by telegraph
CADAVERUM	—Can you ship immediately
CADDERO	—Cannot ship before next
CADDICE	—Enter order for if you can ship not later than
CADDOR	—Ship by freight
CADDY	—Shipped by express on
CADEBATIS	—Shipped by freight on
CADELEURE	—Adams Express Company
CADELLA	—American Express Company
CADMIA	—National Express Company
CADMILUS	—United States Express Company
CADMIONE	—Wells Fargo Express Company
CADMIQUE	—Will write fully regarding this matter

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Renewals. D.
 Less than \$100 - - - - - N
 \$100 - \$250 - - - - - N/D.

Above applies to holders, heater tubes
 and ballast glowers.

Rebates.

Glower terminals - 4¢ per pair.

Heater tubes - 20¢ each.

Ballast - - - - - 1¢ "

Rebates - Hamilton carriage prepaid.

Canadian Westinghouse Co., Limited

Hamilton, Ontario

DISTRICT SALES OFFICES

Montreal Toronto Winnipeg
 Vancouver Halifax

Life guarantee for A.C. Circuits.

Ave. life of any 100 glowers. 5% variation ±
 on 133 cycles. — 800 hr

" 60 " — 600 "

" 25 " — 400 " (one)

Heater tubes — 3000 hrs.

Ballast — 15000 " A.C. or D.C.

D.C. - same conditions.

Heater tubes — 2000 hr.

glowers — 500 "

A.C. & D.C. wattage same.





Introduction



THE fundamental principle of the Nernst lamp, that the metal oxides of certain rare earths will conduct electricity and give off light after being heated, was discovered by Dr. Nernst, the German scientist. The original invention is embodied in the light-giving element or "glower" of the lamp, as it is to-day. This glower, composed of a rare earth mixture, is a small rod or pencil of chalk-like material with a terminal wire at each end.

Since the glower requires heating before it will conduct current and give light, it becomes necessary to employ an electric heater, which is mounted above and close to the glowers inside the globe. The latter is not air-tight, as the Nernst lamp does not require a vacuum.

The upper portion of the lamp contains the "ballast," a small regulating resistance in series with the glower, and an automatic "cut-out," to throw the heater out of service after it has lighted the glower.

Owing to its peculiar composition and the high temperature at which it operates, the glower gives off a brilliant white light, at a very high efficiency, so that the Nernst lamp gives about twice the amount of light for the same amount of current that the ordinary carbon filament lamp does.

The lamp is furnished in five different sizes—one, two, three, four and six-glower. The candle power ratings of the Nernst Lamps compare with other illuminants, as follows:

The one-glower lamp successfully replaces three 16-Candle Power incandescent lamps, or one gas mantle.

The two-glower lamp successfully replaces seven 16-Candle Power incandescent lamps, or $2\frac{1}{2}$ gas mantles.

The three-glower lamp successfully replaces ten 16-Candle Power incandescent lamps, or one 4-Burner Gas Arc.

The four-glower lamp successfully replaces thirteen 16-Candle Power incandescent lamps, or one 6-ampere enclosed A. C. arc lamp.

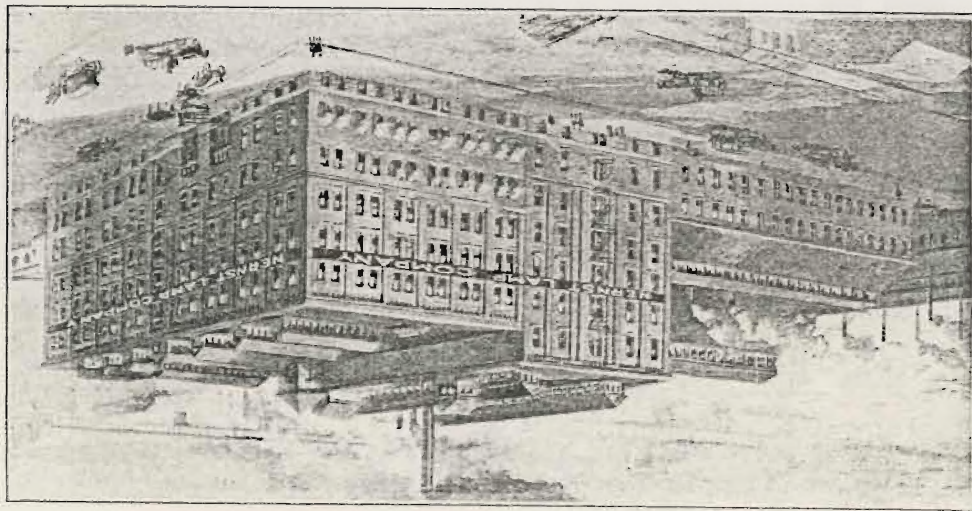
The six-glower lamp successfully replaces twenty 16-Candle Power incandescent lamps, or one $7\frac{1}{2}$ -ampere A. C., or one 5-ampere D. C. enclosed arc lamp.

During the four years that the Nernst lamp has been on the market, its highly successful and economical operation has not only exceeded the expectations of those engaged in its development, but has won for it a prominent place among modern illuminants. After thorough tests, it has been adopted for lighting many of the finest and largest buildings and stores in the country. It is the only system that is available in units of all sizes, a feature that recommends it for installations that would otherwise require a combination of widely different color values as furnished by the arc and the incandescent.

Its near approach to the color quality of sunlight itself recommends it especially for lighting where color value is of prime importance.

In presenting the 1907 catalog, we call attention to the new lamp bodies and fixtures, more graceful in shape and pleasing in appearance than before offered, to the new canopy housing, the holophane shades and hemispheres, the vertical glower lamp and the new trimming device, which is used in connection with all multiple glower types of lamps.

This device was adopted, as it materially aids the lamp trimmer in his work. It makes it necessary to equip all balls and shades with bands, with the exception of metal shades used in connection with balls on out-door lamps.



NERNST LAMP WORKS AT PITTSBURGH

CANADIAN WESTINGHOUSE COMPANY, LIMITED

ADDRESS ALL COMMUNICATIONS TO THE COMPANY.

HAMILTON, CANADA.

2/7/07

Dear Sir:-

We are forwarding you under separate cover, copy of revised catalogue and price list #5, 1907.

We wish to call your attention to some improvements made in the lamps listed in this catalogue. Fig.#2, page 27 represents the new standard lamp which has a new arrangement for trimming, doing away with thumb screws and has a globe holder attached to the lamp. You will also note the new type of canopy lamp made in all sizes.

The lamps equipped with Holophane hemispheres, listed on page 26 have a very neat appearance and can be used to great advantage for church and office lighting as the Holophane hemisphere gives a good general illumination.

We would ask you to kindly acknowledge receipt of catalogue so that we may be sure it has reached you safely.

Thanking you for your co-operation and orders during the past year and trusting that the NERNST LAMP will be of advantage to you, thereby enabling you to place more orders with us, we are

Yours very truly,

NERNST LAMP DEPARTMENT.

AEF/8

CANADIAN WESTINGHOUSE COMPANY, LIMITED

ADDRESS ALL COMMUNICATIONS TO THE COMPANY.

HAMILTON, CANADA. 2/7/7

Dear Sir:-

We are forwarding you under separate cover, copy of #5 catalogue 1907. At a later date we will supply you with a loose leaf price list containing new information and data.

We have a few of the old type lamps still in stock and these will be shipped on all orders until the stock is wiped out. After that date lamps shown on page 27, cut #2 will be shipped. We will use every precaution so that the different type of lamps will not be shipped on the same order.

We would call your attention to a new one glower lamp shown on page 22 which lists at \$4.25. This lamp is equipped with holder Catalogue # 1461. Lamps from catalogue number 1100 to 1106 will be equipped with holder catalogue #1774.

Yours very truly,

SIGNED
A. E. FLEMING.
NEAREST LAMP DEPARTMENT.

AEE/8